



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/935,131	08/21/2001	Limor Schweitzer	XACTP015B	9614
28875	7590	09/21/2004	EXAMINER	
Zilka-Kotab, PC P.O. BOX 721120 SAN JOSE, CA 95172-1120			THOMPSON, MARC D	
			ART UNIT	PAPER NUMBER
			2144	

DATE MAILED: 09/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/935,131

Applicant(s)

SCHWEITZER ET AL.

Examiner

Marc D. Thompson

Art Unit

2144

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 June 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 20-50 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 20-50 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. Amendment B, received 6/2/2003, has been entered into record.
2. Claims 20-50 are now pending.

Priority

3. This application claims priority as a continuation to U.S. Application 09/552,818, filed 4/20/2000, which claims benefit to provisional application 60/141,351, filed 6/28/1999.
4. The effective filing date for the subject matter defined in the pending claims in this application which have support in the parent application and its' associated provisional application is 6/28/1999.

Drawings

5. The Examiner contends that the drawings submitted on 8/21/2001 are acceptable for examination proceedings.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
7. Claims 20-50 are rejected under 35 U.S.C. §112, second paragraph, as failing to set forth the subject matter which applicant(s) regard as their invention.
8. The claims, title, abstract, and specification use the term "session reconstruction" and "reconstructing the session" without providing adequate definition to determine the metes and

Art Unit: 2144

bounds of what this limitation includes. Commensurate with the specification, the definition of "session" is relatively clear (Page 9, Lines 11-24), but the operation of the described "reconstruction system(s)" is vague and remains open to multiple interpretations when portraying functionality drawn to "session reconstruction" or "reconstruction [of a] session". Thus, the use of this limitation in the claims is held indefinite since the term does not directly impart any specifically defined behavior or functionality. For examination purposes, "session reconstruction", and identically, "reconstructing [a] session" will be treated as the gathering of information about the session, and the analyzing of this gathered information in order to monitor or account a specific flow (session), or sets of flows (sessions), of network information. See, for example, present specification, Page 18, Line 11 through Page 20, Line 12.

9. It is noted that this rejection is identical to the previous rejection on the same basis, and Applicant has completely failed to clarify the term(s) used when addressing the rejection. See, response, received 6/2/2003, Page 8. While Applicant contends that the term "reconstructing the session" is "sufficiently clear", no clarification of the metes and bounds of this limitation are even remotely provided beyond what the Examiner supplied. It is simply unclear how something can be considered "sufficiently clear and definite" when no specific definition of what the limitation describes is provided. Further, Applicant does not comment on the interpretation provided by the Examiner for claim construction. Thus, this response is treated as nothing more than a general allegation of clarity, since no discussion other than the position set forth by Examiner concerning the meaning of any portion of this cited limitation or rejection is present in the file history. Lastly, in the response Applicant asserts that "session reconstruction" is not claimed, while the specification, and Applicant submissions are replete with usage of this

Art Unit: 2144

descriptive term. In short, there is factual basis for differentiating between "session reconstruction" or "reconstruction [of a] session". Applicant is requested to clarify the position set forth in regard to this alleged discrepancy.

10. All the claims depend from a claim containing the limitation "reconstructing the session utilizing the identified application at a plurality of collaborating nodes". First, it is unclear how a single "identified application" operated "at a plurality of collaborating nodes", since each "agent" or "program" would be a separate application instance, since the invention "identified at least one application associated with the session". Thus, use of the descriptive terminology "application", "at least one application", and "the identified application", is unclear. Second, presuming that the "identified application(s)" are attempting to describe an entire system of executing program segments, where these elements work collaboratively to analyze session information, how this occurs is unclear. No communication between application instances or application portions is described in the claim, nor is any single instance of the application properly described. Thus, collaboration between "the identified application(s)" does not make sense, since only one application is recited.

11. Claims 47-49 recites packet "hints". It is unclear what these hints are, what they intend to describe, and whether there are any ascertainable metes and bounds of the information which may or may not constitute packet "hints". This will be interpreted to encompass any viable information about the packet, including the packet itself.

Claim Rejections - 35 USC § 103

12. The following is a quotation of 35 U.S.C. §103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2144

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

13. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. §103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR §1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. §103(c) and potential 35 U.S.C. §102(f) or (g) prior art under 35 U.S.C. §103(a).

14. Claims 20-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chiu et al (U.S. Patent Number 5,101,402), hereinafter referred to as Chiu, in view of Ronen (U.S. Patent Number 5,845,267), hereinafter referred to as Ronen, further in view of Maccabee et al. (U.S. Patent Number 6,108,700), hereinafter referred to as Maccabee.

15. Chiu disclosed a system and method for real-time monitoring of software sessions by analyzing packets transmitted on the network using session identifiers in packets header(s), statistical gathering of session flow characteristics on the network, and preparation of gathered information in specific formats. See, inter alia, Abstract, Column 4, Line 59 through Column 5, Line 41, and Column 6, Lines 53 through Column 7, Line 14. The system of Chiu related to the claimed "reconstructing the session" system, since both systems actively inspect, categorize, and account, based on application session flows. See Abstract. Multiple instances of session gathering programmatic software was clearly evident, collaborating to analyze all available or desired sessions. See, Column 11, Line 55 through Column 12, Line 28.

16. While Chiu disclosed the invention substantially as claimed, Chiu did not expressly disclose identification of a user associated with an arbitrary application session, and the use of a predetermined policy to effect accounting, billing, filtering, application event detection, and/or

Art Unit: 2144

report generation. Chiu kept statistics on individual sessions of network service usage. See Column 5, Lines 8-12. It was well known at the time of invention to charge users for the usage of network resources/services, and so, this would have motivated an artisan to search related arts for a compatible system which would have enabled the information gathered by the system of Chiu to have been utilized in combination with at least an electronic billing mechanism to ensure that users paid an appropriate, agreed amount, for a network service, and that such gathered data was accurate and reliable.

17. In the same art of network transaction monitoring, Ronen disclosed a system and method for billing users for network services using a session manager (a session reconstructor which gathered information about transactions during arbitrary session intervals). The session manager correlated the requesting network address to a user ID and an application ID. See Column 2, Lines 26-60. The system further utilized policy management for appropriate charging, filtering, and application/transaction event determining/monitoring. See, inter alia, Column 2, Lines 54-60.

18. Lastly, this combination of teachings remained silent as to specifics regarding granularity of transactions, that is, the correlation of events/states into a single atomic "transaction", or event (session). An artisan would have been motivated to search the same arts of events and transaction management to locate teachings dealing with compound sessions/transactions (Chiu, Column 1, Lines 44-51, Column 5, Lines 13-30, and Ronen, Column 7, Lines 6-33), accurate information gathering regarding these sessions (Chiu, Column 4, Lines 44-50), and report generation based on gathered information (Chiu, Column , Lines 8-12).

Art Unit: 2144

19. In these arts, Maccabee disclosed a system which correlated and collated select measurement events into transactions for report generation. See Columns 3-6, for example. The system was disclosed as open-ended, able to permit the addition of software and/or hardware modules to extend the measurement and/or reporting facilities of the system. See Column 4, Lines 1-12. In short, the system of Maccabee would have enabled an ordinary artisan at the time of the invention to define event(s) as portions of a transaction for statistical gathering and reporting.

20. The combination of these teachings would have been obvious to one of ordinary skill in the art at the time of the invention, since all the teachings reside in the collection and monitoring of network transactional sessions. Chiu provided for monitoring sessions, Ronen provided for session and transaction billing, and Maccabee provided event notification for transactional session compilation. The resulting system comprises management, billing, and reporting policy enforcement, in an enhanced network monitoring environment, using arbitrary, atomic transactions and sessions.

21. The claimed limitations were disclosed by the combination of Chiu, Ronen, and Maccabee, minimally, as follows:

(Claim 20, 30)

a. *Receiving a plurality of packets at a plurality of analyzers*, was taught by Chiu, inter alia, in Column 11, Line 55 through Column 12, Line 14, and was taught by Maccabee in Figures 1B-1D.

Art Unit: 2144

b. *Aggregating the plurality of packets*, was taught by Chiu in Column 12, Lines 15-28, was taught by Ronen in Column 7, Lines 6-15, and was taught by Maccabee in Column 9, Line 46 through Column 10, Line 4.

c. *Analyzing the plurality of packets to identify a plurality of flows*, was taught by Chiu in Column 5, Lines 23-25, was taught by Ronen in Column 2, Lines 26-41, and was taught by Maccabee in Column 4, Lines 47-67.

d. *Identifying a session associated with the flows*, was taught by Chiu in Column 5, Lines 27-30.

e. *Identifying at least one application associated with the session*, was taught by Chiu in Column 5, Lines 36-37.

f. *Reconstructing the session utilizing the identified application at a plurality of collaborating nodes*, was taught by Chiu in Column 5, Lines 31-41, and Column 11, Line 55 through Column 12, Line 28.

g. *Identifying a user associated with the session*, was taught by Ronen in Column 2, Lines 44-51, and was taught by Maccabee in Column 4, Lines 63-67

h. *Determining a policy*, was taught by Chiu in Column 5, Lines 13-41, was taught by Ronen in Column 2, Lines 54-60, and was taught by Maccabee in Column 8, Lines 43-47.

i. *Billing the user for the session in accordance with the policy*, was taught by Ronen, inter alia, in Column 3, Lines 1-12 and Column 5, Lines 43-48.

(Claim 21, 31)

j. *Filtering the packets for removing packets unrelated to the session*, was taught by Chiu in Figure 15 (236, lower), where ignored/discarded packets were present (filtered),

Art Unit: 2144

unrelated to the session(s) being analyzed. Also see Ronen, Column 4, Line 63 through Column 5, Line 10, and Maccabee, Column 2, Lines 7-25.

(Claim 22, 32)

k. *Identifying application events associated with the session based on the policy*, was taught by Maccabee in Column 4, Lines 29-46, Column 5, Lines 4-60, and Column 8, Lines 27-57.

(Claim 23, 33)

l. *Assigning a significance to the application events based on the policy*, was taught by Maccabee in Column 8, Lines 27-57.

(Claim 24, 34)

m. *User is billed for the session utilizing the application events in accordance with the policy*, was taught by Ronen in Column 5, Line 20 through Column 8, Line 29, and was taught by Maccabee in Column 4, Lines 29-40.

(Claim 25, 35)

n. *Further comprising determining billing information for the session using the application events in accordance with the policy*, was taught by Ronen in Column 5, Line 20 through Column 8, Line 29.

(Claim 26, 36)

o. *Outputting a report including the billing information in accordance with the policy*, was taught by Ronen in Column 7, Lines 6-33, and was taught by Maccabee in Column 10, Lines 1-4.

(Claim 27, 37)

p. *Restricting tasks of the user in accordance with the policy*, was substantially taught by Ronen in Column 5, Line 55 through Column 6, Line 64. Since specific transactions were identified, rights and authorization of the user were used to determine any application usage, and disposition of the transaction occurred when the transaction was authorized, the provision for restricting tasks (application usage) for users was present, according to the policy which directly dictated which applications were billed to what, and who was authorized for each application use.

(Claim 28, 38)

q. *An amount of bandwidth is restricted in accordance with the policy*, would have been obvious to one of ordinary skill in the art at the time the invention was made, since billing network usage according to an arbitrary assigned/designated bandwidth was well known in the art. A user policy was required to determine the usage status of an individual user. Designating a bandwidth usage limit within the policy applied to each user, and the cost associated with bandwidth usage, would have been routine.

(Claim 29, 39)

r. *Policy includes a series of packet capture language expressions and output selectors*, was inherent in the Chiu system, since programmed capture of network packets was utilized. Any machine actively analyzing network packets would have inherently included expressions and selectors for reading/writing packet headers.

(Claim 40)

s. *Identifying a session associated with a first flow*, was taught by Maccabee in Column 4, Lines 29-46, and Column 5, Lines 33-38.

Art Unit: 2144

t. *Identifying additional flows associated with the session*, was taught by Maccabee in Column 4, Lines 29-46, Column 5, Lines 33-38, and Column 9, Lines 46-55.

u. *Gathering application events associated with the session based on the policy*, was taught by Maccabee in Column 5, Lines 4-24.

(Claim 23/33, 25/35, 26/36, 27/37)

v. *Executing actions in response to the application events in accordance with the policy*, was taught by Maccabee in Column 13, Lines 9-16.

(Claim 41)

w. *wherein a first flow associated with a first application flows through a first one of the nodes*, was disclosed, inter alia, by Chiu in Column 11, Line 55 through Column 12, Line 28.

(Claim 42)

x. *wherein a second flow associated with the first application flows through a second one of the nodes*, was disclosed, inter alia, by Chiu in Column 11, Line 55 through Column 12, Line 28.

(Claim 43)

y. *each of the collaborating nodes includes a packet source and a first hierarchical network analyzer*, was disclosed, inter alia, by Chiu in Column 4, Lines 34-56, and Figure 4.

(Claim 44)

z. *each of the collaborating nodes includes a filter coupled between the packet source and the analyzer*, was disclosed, inter alia, by Chiu in Column 7, Lines 33-35.

(Claim 45)

aa. *first analyzer feed information to a second network analyzer*, was disclosed, inter alia, by Chiu in Column 12, Lines 15-16.

(Claim 46)

bb. *reconstructing the session at the second analyzer*, was disclosed, inter alia, by Chiu in Column 11, Line 55 through Column 12, Line 28.

(Claim 47-49)

cc. *packet forwarding, hints, summary of packets*, was disclosed, inter alia, by Chiu in Column 11, Line 55 through Column 12, Line 28.

(Claim 50)

dd. *nodes include a router*, was disclosed, inter alia, by Chiu in Figure 4.

22. Since the claimed limitations were disclosed by the combination of Chiu, Ronen, and Maccabee, claims 20-50 are rejected.

23. Claims 20-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCreery et al. (U.S. Patent Number 5,787,253), hereinafter referred to as McCreery, in view of Ronen (U.S. Patent Number 5,845,267), hereinafter referred to as Ronen.

24. McCreery disclosed a network packet analyzation system for obtaining transaction data related to session of network usage. See Column 2, Lines 11-49. McCreery further filtered data in packets to identify traffic flows (transactions in progress) and decode application level commands and events specified in the packets comprising the request/response. See Column 2, Line 50 through Column 3, Line 12. McCreery disclosed the invention substantially as claimed. Thus,

Art Unit: 2144

(Claim 20,30)

a. *Receiving a plurality of packets at a plurality of analyzers*, was taught by McCreery in Column 6, Lines 41-43.

b. *Aggregating the plurality of packets*, was taught by McCreery, inter alia, in Column 10, Lines 20-23.

c. *Analyzing the plurality of packets to identify a plurality of flows*, was taught by McCreery in Column 9, Lines 29-49.

d. *Identifying a session associated with the flows*, was taught by McCreery in Column 9, Lines 37-39.

e. *Identifying at least one application associated with the session*, was taught by McCreery in Column 5, Lines 1-10.

f. *Reconstructing the session utilizing the identified application at a plurality of collaborating nodes*, was taught by McCreery in Column 6, Lines 41-43, Column 11, Lines 15-26, and Column 13, Lines 43-65.

g. *Identifying a user associated with the session*, was taught by McCreery in Column 12, Lines 39-59.

25. While McCreery disclosed the invention substantially as claimed, McCreery did not expressly disclose billing specific customers for session oriented transactions. While McCreery did expressly disclose transactions and services available on an internet, McCreery failed to address billing for these services/transactions during description of the system. An ordinary artisan at the time of invention would have been motivated to search for teachings which would allow an administrator to allow charging for service and usage of the applicable network(s). This

Art Unit: 2144

would allow suitable paying/billing arrangements to compensate network service providers for allowing client(s) to use services on the network.

26. In this art of network transactional billing, Ronen disclosed charging actual users associated with terminal addresses for accurate billing for the usage of network services. See Column 2, Lines 26-67, Column 3, Lines 1-12, and Column 5, Lines 20-54. Ronen disclosed a modification to the McCreery system which would not have disrupted the functionality of the McCreery system, as well as being modularly added to any existing system. See Column 3, Line 61 through Column 4, Line 62, and Column 7, Lines 34-43. Thus,

h. *Determining a policy*, was taught by McCreery in Column 3, Lines 1-12, and was taught by Ronen in Column 2, Lines 54-60

i. *Billing the user for the session in accordance with the policy*, was taught by Ronen, inter alia, in Column 3, Lines 1-12 and Column 5, Lines 43-48.

(Claim 21, 31)

j. *Filtering the packets for removing packets unrelated to the session*, was taught by McCreery, inter alia, in Column 8, Lines 24-65. Also see Column 10, Lines 38-40.

(Claim 22, 32)

k. *Identifying application events associated with the session based on the policy*, was taught by McCreery in Column 3, Lines 1-12, and Column 5, Lines 1-10.

(Claim 23, 33)

l. *Assigning a significance to the application events based on the policy*, was taught by McCreery in Column 5, Lines 1-10.

(Claim 24, 34)

Art Unit: 2144

m. *User is billed for the session utilizing the application events in accordance with the policy*, was taught by the combination of McCreery in Column , Lines , and Ronen, Column 5, Line 20 through Column 8, Line 29.

(Claim 25,35)

n. *Further comprising determining billing information for the session using the application events in accordance with the policy*, was taught by the transaction gathering provided by McCreery in combination with Ronen, Column 8, Lines 10-29.

(Claim 26,36)

o. *Outputting a report including the billing information in accordance with the policy*, was taught by McCreery in Column 5, Lines 31-43, and Column 7, Lines 60-67, and would have been obvious to an ordinary artisan working with the Ronen system, since this limitation would have minimally entailed reporting all the information stored with a particular user account, e.g., an itemized billing statement. See Ronen, Column 6, Lines 10-50.

(Claim 27, 37)

p. *Restricting tasks of the user in accordance with the policy*, was taught by McCreery in Column 5, Lines 44-57, and was taught by Ronen in Column 5, Lines 46-50, and Column 8, Lines 1-10.

(Claim 28, 38)

q. *An amount of bandwidth is restricted in accordance with the policy*, was taught by McCreery in Column 5, Lines 44-57.

(Claim 29,39)

Art Unit: 2144

r. *Policy includes a series of packet capture language expressions and output selectors*, was taught by McCreery in Column 4, Line 35 through Column 5, Line 10, and Column 9, Lines 29-49.

(Claim 40)

s. *Identifying a session associated with a first flow*, was taught by McCreery, inter alia, in Column 2, Lines 50-67.

t. *Identifying additional flows associated with the session*, was taught by McCreery in Column 9, Lines 29-67.

u. *Gathering application events associated with the session based on the policy*, was taught by McCreery in Column 5, Lines 1-10, and was taught by Ronen in Column 7, Lines 6-33.

(Claim 23/33, 25/35, 26/36, 27/37)

v. *Executing actions in response to the application events in accordance with the policy*, was taught by McCreery in Column 8, Lines 1-9, and was taught by Ronen in Column 7, Lines 24-27.

(Claim 41)

w. *wherein a first flow associated with a first application flows through a first one of the nodes*, was disclosed, inter alia, by McCreery in Column 10, Lines 20-50.

(Claim 42)

x. *wherein a second flow associated with the first application flows through a second one of the nodes*, was disclosed, inter alia, by McCreery in Column 10, Lines 20-50.

(Claim 43)

Art Unit: 2144

y. *each of the collaborating nodes includes a packet source and a first hierarchical network analyzer*, was disclosed, inter alia, by McCreery in Column 7, Lines 22-27.

(Claim 44)

z. *each of the collaborating nodes includes a filter coupled between the packet source and the analyzer*, was disclosed, inter alia, by McCreery in Figure 4B, filter (332).

(Claim 45)

aa. *first analyzer feed information to a second network analyzer*, was disclosed, inter alia, by McCreery in Column 12, Lines 15-16.

(Claim 46)

bb. *reconstructing the session at the second analyzer*, was disclosed, inter alia, by McCreery in Column 6, Lines 54-59, and Column 9, Lines 57-67.

(Claim 47-49)

cc. *packet forwarding, hints, summary of packets*, was disclosed, inter alia, by McCreery in Column 9, Lines 57-67.

(Claim 50)

dd. *nodes include a router*, was disclosed, inter alia, by McCreery in Column 5, Line 64 through Column 6, Line 25.

27. It would have been obvious to one of ordinary art at the time the invention was made to modify the transaction tracking system of McCreery with the transaction billing system set forth by Ronen in order to bill particular users for usage of network services.

28. Since the combination of McCreery and Ronen disclose the claimed invention limitations, claims 20-50 are rejected.

29. Claims 20-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over “Rich Data About customer Usage” (Narus’ semantic traffic analysis), written by Bill Roberts for Internet World, v5, n10, p27, published 3/15/1999, hereinafter referred to as Roberts, in view of “Narus and Portal Join to Provide Internet service Providers Full Customer Management and Billing Solutions; Alliance creates Solution Suites for ISPs to Build Service-Driven Businesses”, Business Wire, 3/16/1999, hereinafter referred to as Business Wire.

30. Roberts disclosed “semantic traffic analysis” which allowed an ISP to capture and analyze (“sniff”) packets in order to gather information about application level and customer usage of the network, including IP telephony, e-mail, application usage, multimedia streaming, and any other IP service. The system was equipped to track user behavior during sessions. The system further allowed customers to receive “billing information that’s as specific as a telephone bill”, i.e., itemized. Thus, Roberts disclosed reception of packets on the network, analyzing the packets and flows to identify sessions, identification of application(s) associated with the session, and identification of the user associated with the session. Policy determination was implicitly disclosed, since customers were billed a determined amount in exchange for services. Billing the user in accordance with this policy was disclosed, since the system offered itemized, discrete billing information. Thus, generation of reports including billing information were also disclosed. Filtering of packets unrelated to the session was inherent, since discerning of the session itself provided this. In short, the system “measure customers’ usage of applications and charge[d] them appropriately”, by “sniffing] network traffic”, using “[a] number of probes required [depending] on the size and geographical reach of the network.”

Art Unit: 2144

31. An artisan working with the Roberts (Narus) system would have been motivated to search for further teachings in the same art, dealing directly with this system and the underlying technology. In these arts, Business Wire disclosed an alliance between Narus and Portal, which resulted in "comprehensive and flexible customer management and billing solutions" which "capture[d] real-time, comprehensive network and application-level customer usage information directly from IP networks" by "capturing all customer usage activity." Thus, provision for packet analyzing, session reconstruction, identification of particular applications/services, billing for application events according to a general policy, and output of reports including the billing information were all disclosed.

32. The claimed invention was described by the general teachings set forth in Roberts and Business Wire, and an ordinary artisan would have been able to construct the claimed invention from these teachings without undue experimentation. Thus, since the claimed invention was disclosed, claims 20-50 are rejected.

Response to Arguments

33. The arguments presented by Applicant in the response, received on 6/2/2003, are not considered persuasive. Applicant argues:

34. It is noted that the indefinite rejection (112, second paragraph) is identical to the previous rejection on the same basis, and Applicant has completely failed to clarify the term(s) used when addressing the rejection. See, response, received 6/2/2003, Page 8. While Applicant contends that the term "reconstructing the session" is "sufficiently clear", no clarification of the metes and bounds of this limitation are even remotely provided beyond what the Examiner supplied. It is

Art Unit: 2144

simply unclear how something can be considered “sufficiently clear and definite” when no specific definition of what the limitation describes is provided. Further, Applicant does not comment on the interpretation provided by the Examiner for claim construction. Thus, this response is treated as nothing more than a general allegation of clarity, since no discussion other than the position set forth by Examiner concerning the meaning of any portion of this cited limitation or rejection is present in the file history. Lastly, in the response Applicant asserts that “session reconstruction” is not claimed, while the specification, and Applicant submissions are replete with usage of this descriptive term. In short, there is factual basis for differentiating between “session reconstruction” or “reconstruction [of a] session”. Applicant is requested to clarify the position set forth in regard to this alleged discrepancy.

35. Applicant fails to respond to the rejection of the claims in view of McCreery et al. (U.S. Patent Number 5,787,253), in view of Ronen (U.S. Patent Number 5,845,267). This rejection and position must be presumed valid until clear and convincing evidence or reasoning is provided to obviate the correlation(s).

36. Applicant revision to the claims forms the basis for the sole argument for patentability of the presented independent claims. This revision involves nothing more than an assertion that “simply nowhere in the foregoing references is there disclosed, taught, or suggested ‘reconstructing the session utilizing the identified application at a plurality of collaborating nodes’”. See, response, Page 8. First, since “reconstructing the session” is interpreted to encompass the gathering of information about [a] session,

37. In regard to the Declaration received 6/2/2003, the contents do not support enough evidence to consider the invention as known to the inventor at the time asserted, namely,

Art Unit: 2144

3/15/1999. The submitted evidence was not enabling to one of ordinary skill in the art at the time of filing. There is also a general failing to show sufficient details to adequately convince the Examiner that (a) the invention was known or used by the inventor prior to the asserted date, and (b) reduction to practice prior to or subsequent to the filing of the application. The operation of the invention at a plurality of collaborating nodes and the coordination of multiple agents within the system is never discussed. Thus, the evidence submitted to show conception of the invention prior to the asserted date cannot properly support this notion, since there is clear failure to disclose or discuss key portion(s) of the invention now being relied on as a distinguishing feature of the invention. Resultantly, the rejection based on Narus, above, remains a valid position.

38. In response to the general allegation that the prior art fails to describe multiple, collaborating agents operating to perform the well known session monitoring evidenced by the prior art of record, Examiner stipulates that, especially in view of multiple pieces of cited and applied prior art of record, arguments and broad alleging of novelty on this feature is not persuasive. That is, given the breadth of the claimed invention and the inability to solidify a distinguishing feature of the claimed invention over the prior art of record, novelty and non-obviousness of the invention cannot be ascertained.

Conclusion

39. As previously asserted, Applicant employs broad language which includes the use of words and phrases which have broad meanings in the art, inter alia, "flows", "session", "policy", and "events". It is suggested that Applicant argues narrower interpretation of the claim language,

Art Unit: 2144

or amends the claims significantly enough to construe a narrower meaning to the limitations. Minimally, Applicant should properly define these words and the intended meanings of any terms which may have numerous interpretations. As the claims breadth allows multiple interpretations and meanings which are broader than Applicant's disclosure, the Examiner is forced to interpret the claim limitations as broadly as reasonably possible, in determining patentability of the disclosed invention.

40. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

41. A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

42. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc D. Thompson whose telephone number is 703-308-6750. The examiner can normally be reached on Monday-Friday, 9am-4pm. Note: The Examiner expects to move to the new PTO site in Carlyle in the next few months, and contact information

Art Unit: 2144

will change at that time. If not available at the above number, The Examiner can be reached at 571-272-3932.

43. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Cuchlinski, Jr. can be reached on 703-308-3873. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

44. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MARC D. THOMPSON
MARC THOMPSON
PRIMARY EXAMINER

Marc D. Thompson
Primary Examiner
Art Unit 2144